

# **Method for Implementing Router Interface Backup with Virtual Router Redundancy Protocol**

## **Abstract**

Disclosed is a method for implementing router interface backup with Virtual Router Redundancy Protocol (VRRP). The method includes the steps of: connecting multiple interfaces of a router or routers to the same LAN and adding these multiple interfaces to the same multicast group; configuring the same virtual router number and virtual IP address to these interfaces to make them join the same virtual router; selecting the main interface and backup interfaces according to their respective priorities among said interfaces; and sending VRRP multicast packets from the main interface to all backup interfaces periodically; if the priority involved in the just received VRRP multicast packet is zero or the backup interfaces have not received any VRRP multicast packet within a predetermined period, one backup interface becoming the main interface and replacing the original one. The invention implements backup between interfaces in a router or routers without affecting the original VRRP backup function between routers.